

OPERATE A BACKHOE/DIGGER LOADER

3 Day Course

MODULE 1: PARTS & FUNCTIONS

- Main Parts
- Controls & Instruments Overview
- Front Instrument Panel Overview
- Side Instrument Panel Overview
- Formative Assessments

MODULE 2: SAFETY

- Operator Responsibilities
- The OHS Act Requires:
 - General Safety
 - Bail Out Procedure
 - Formative Assessments

MODULE 3 – DAILY CHECKS

- Introduction
- Pre-Start Checks
- Start Up Checks
- Shutting Down the Backhoe Loader
- Normal Procedure
- Logbooks & Other Checklists
- Loader Operator Accident Report Sheet
- Loader Operator Loader Defect Report
- Formative Assessments

MODULE 4: PRINCIPLES OF OPERATION

- Leverage
- Centre Of Gravity
- Stability – Stabilizers
- Side Loading (Dragging)
- Formative Assessments

MODULE 5: MECHANICAL APPRECIATION

- Engine
- Cooling And Fuel Systems
- Transmission
- Axles
- Stabilizers
- Steering System
- Hydraulic System
- Batteries
- Backhoe Loader Controls



- Loader Assembly
- Backhoe Assembly
- Troubleshooting

MODULE 6: LOAD CAPACITY AND RANGE

- Introduction
- Range Diagrams
- Load Chart
- Formative Assessments

MODULE 7: SIGNALS

- Hand Signals
- Communication By Radio

MODULE 8: PRACTICAL OPERATION

- Operate The Loader
- Perform The Pre-Start and Start Up Checks
- Check The Job Is Within the Capacity of The Backhoe Loader
- Set Up the Backhoe Loader for The Job
- Perform The Operation
- During The Operation:
- Road Travel
- In Cab
- Key Start & Stop Switch
- Starting The Engine
- Drive Systems
- Steering Systems
- Loader – Lever Shift Patterns
- Multi-Purpose Bucket
- Loading Operations
- Fork Option
- Backhoe Operations
- Stabilizers
- Backhoe Transport Boom Lock
- Backhoe Elements
- Optional Extendible Dipper
- Backhoe Operation
- Trenching
- Tyre Ballasting
- Towing

